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1998

1998 Montana Wheat & Barley Varieties

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Forward

This publication is the result of a June survey of Montana grain growers. It contains names, characteristics and production records of the leading varieties in Montana in 1998. We wish to thank the many farmers who voluntarily provided us with variety information.

Funding for the barley varieties survey was provided by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. The wheat variety survey was funded by the Montana Wheat & Barley Committee. Montana State University provided varietal characteristic information.

Plant researchers continually develop new grain varieties with promise of higher yields, improved baking and milling qualities and increased insect and disease resistance. Montana farmers test these new varieties in their fields with hopes of increasing their overall farm profits. Shifts occur in the acres of varieties planted as farmers discover what works or doesn't work for them.

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Winter Wheat

Neeley remained the leading variety of winter wheat seeded in Montana for the eleventh consecutive year with 272 thousand acres planted in the state. Total acres planted decreased sharply from last year's 390 thousand acres. This variety is a hard red, semi-dwarf winter wheat with a lower protein level than most hard red winter wheats. It is a moderately late maturing grain and has a fair rating for winter hardiness. Neeley has satisfactory milling and baking qualities.

Rocky maintained its position of the second most popular winter wheat variety for the second consecutive year. Montana farmers planted 194 thousand acres of Rocky this year, a decrease from the 305 thousand acres planted last year. Rocky is a hard red winter wheat that has good yield potential and medium grain protein. This variety is very resistant to lodging and stem rust and has average milling and baking qualities.

Tiber remained in the third place position for the second consecutive year, accounting for 191 thousand acres of winter wheat planted in the state. Total acres of Tiber planted decreased from the 214 thousand acres recorded last year. Tiber is a late maturing variety with a fair rating for winter hardiness and is very resistant to lodging. It has a medium grain protein and medium high test weight with a high yield potential. Tiber has average milling and baking qualities.

Vanguard replaced Redwin as the fourth largest variety planted in Montana. Over 145 thousand acres of Vanguard were planted, accounting for 10 percent of seeded acreage. Vanguard is a hard red winter wheat with a high protein content and good milling and baking qualities. This variety is highly resistant to sawfly infestation.

The top four varieties accounted for 58 percent of the winter wheat acreage seeded in 1998. These same four varieties accounted for 57 percent in 1997.

Winter Wheat

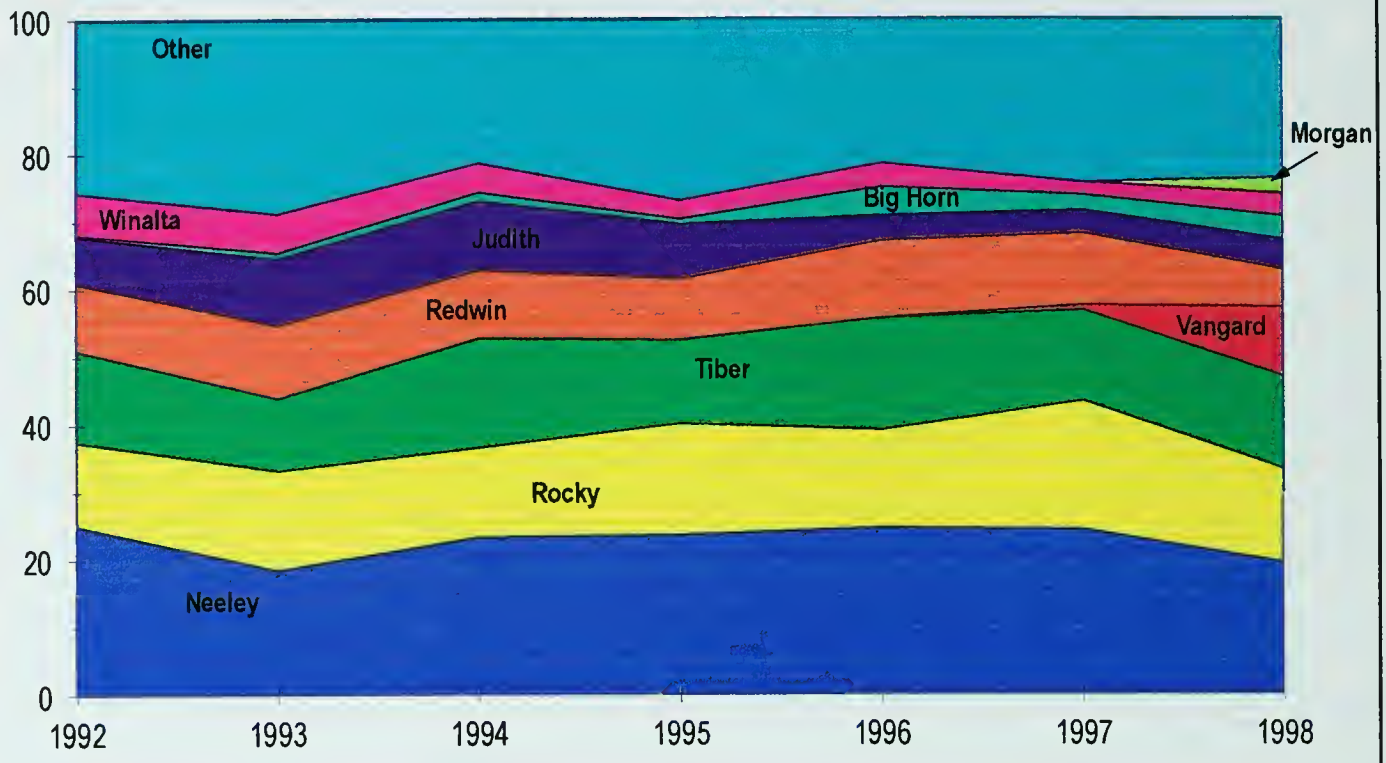
Winter Wheat. Seeded Acreage and Percent of Total Seeded by Districts - 1998																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Neeley	0 2	1.5	80.0	12.3	9 7	9.2	125 1	39 7	15 2	43 4	36.9	18 0	4 7	5.9	271 8	19 4
Rocky	–	--	164 5	25 3	1 4	1 3	22 1	7 0	1 4	4 0	4 9	2 4	–	--	194 3	13 9
Tiber	–	--	71.5	11 0	10.0	9 5	51.3	16.3	–	--	48.4	23 6	10 2	12.7	191 4	13 7
Vanguard	–	--	101.4	15 6	–	--	31 2	9 9	–	--	12.1	5 9	–	--	144 7	10 3
Redwin	–	--	13.7	2 1	0 5	0 5	7 9	2 5	1 4	4 1	39 8	19 4	13 4	16 7	76.7	5 5
Judith	–	--	55.9	8 6	–	--	5 4	1.7	–	--	0.6	0.3	–	--	61.9	4 4
Big Horn	–	--	27 3	4 2	0.6	0 6	20 5	6 5	–	--	--	–	–	--	48 4	3 5
Winalta	–	--	6.5	1 0	23 4	22.3	4 7	1 5	–	--	--	–	13 0	16.2	47 6	3 4
Morgan	–	--	29.3	4 5	–	--	0 3	0 1	–	--	0 2	0 1	2 6	3 2	32 4	2 3
Norstar	–	--	14 3	2 2	12 8	12.2	0 6	0 2	–	--	--	–	1.6	2 0	29 3	2.1
Roughrider	–	--	--	--	21 6	20 6	–	--	–	--	3.1	1 5	0 6	0.7	25 3	1 8
Rampart	–	--	16.9	2 6	–	--	1 9	0 6	0.5	1.4	5 9	2.9	–	--	25 2	1 8
Kestrel	–	--	9 1	1.4	2.4	2.3	0 9	0.3	–	--	1 2	0 6	5.2	6.5	18 8	1 3
Hawk	–	--	14 3	2 2	–	--	–	--	–	--	3 9	1.9	–	--	18 2	1.3
Quantum 542	–	--	11 7	1 8	–	--	0 3	0 1	–	--	1.6	0 8	–	--	13 6	1.0
Centurk	–	--	7 8	1 2	–	--	4 1	1.3	–	--	--	–	1.4	1.8	13 3	1 0
Siouxland	–	--	--	--	–	--	3.5	1.1	–	--	9 4	4 6	–	--	12 9	0 9
Warnor	–	--	--	--	0.8	0 8	–	--	–	--	3 7	1 8	4 9	6.1	9 4	0.7
Promontory	–	--	--	--	--	--	3.8	1.2	–	--	5.5	2.7	–	--	9 3	0.7
Cheyenne	–	--	--	--	7.0	6.7	0 9	0.3	–	--	--	–	–	--	7 9	0 6
Stephens [1]	1.7	17.3	--	--	–	--	–	--	5.3	15.1	--	–	–	--	7.0	0 5
Weston	–	--	--	--	–	--	–	--	–	--	6.6	3 2	–	--	6 6	0.5
Rose	–	--	--	--	–	--	–	--	–	--	--	–	5.8	7.3	5 8	0.4
Yuma	0 6	5.8	3 3	0 5	–	--	0.3	0.1	–	--	1.6	0 8	–	--	5.8	0 4
Other & Unknown	7 5	75 4	22 5	3.5	14 8	14 0	30 2	9 6	11.2	32 0	19 6	9 5	16 6	20.9	122 4	8 6
State	10 0	100.0	650 0	100.0	105.0	100.0	315 0	100.0	35.0	100.0	205.0	100.0	80 0	100.0	1400.0	100 0

Winter Wheat: Percent of Total Seeded Acreage 1992-1998 & Seeded Acreage 1997-1998									
Variety	Percent of Total Seeded Acreage							Seeded Acres	
	1992	1993	1994	1995	1996	1997 [2]	1998	1997 [2]	1998
Neeley	25.0	18.4	23.3	23.6	24.6	24.3	19.4	389.5	271.8
Rocky	12.5	14.8	13.3	16.5	14.6	19.1	13.9	305.0	194.3
Tiber	13.5	10.7	16.2	12.4	16.5	13.4	13.7	213.7	191.4
Vangard	–	–	–	--	--	0.8	10.3	12.1	144.7
Redwin	9.9	10.8	10.0	8.9	11.4	10.6	5.5	170.2	76.7
Judith	7.0	9.8	10.2	8.2	3.7	3.4	4.4	54.8	61.9
Big Horn	0.3	1.0	1.3	0.7	4.0	2.3	3.5	36.5	48.4
Winalta	6.1	5.8	4.4	2.8	3.5	1.9	3.4	30.6	47.6
Morgan	–	–	–	--	--	--	2.3	--	32.4
Norstar	7.6	6.4	2.0	4.0	1.8	1.8	2.1	29.0	29.3
Roughrider	2.8	2.0	1.8	1.0	2.1	2.3	1.8	36.3	25.3
Rampart	–	–	–	--	--	--	1.8	0.4	25.2
Kestrel	–	–	0.1	0.4	1.4	4.0	1.3	63.6	18.8
Hawk	1.0	1.0	0.9	2.4	0.9	1.7	1.3	27.0	18.2
Quantum 542	–	0.3	1.1	1.8	0.6	1.2	1.0	18.8	13.6
Centurk	3.3	2.4	2.6	3.1	3.1	1.5	1.0	24.7	13.3
Siouxland	–	–	–	--	--	--	0.9	--	12.9
Warrior	0.7	1.1	1.7	0.7	0.4	0.6	0.7	9.6	9.4
Promontory	–	–	–	--	0.3	--	0.7	--	9.3
Cheyenne	0.8	1.0	0.6	0.8	0.1	0.2	0.6	2.7	7.9
Stephens [1]	0.2	0.6	0.2	0.9	0.6	0.4	0.5	7.0	7.0
Weston	0.6	0.2	1.1	0.6	0.6	0.5	0.5	7.9	6.6
Rose	0.1	0.1	0.8	--	0.3	0.2	0.4	3.8	5.8
Yuma	–	–	–	--	--	0.5	0.4	7.6	5.8
Other & Unknown	8.6	13.6	8.4	11.2	9.5	9.3	8.6	149.2	122.4
State	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,600.0	1,400.0

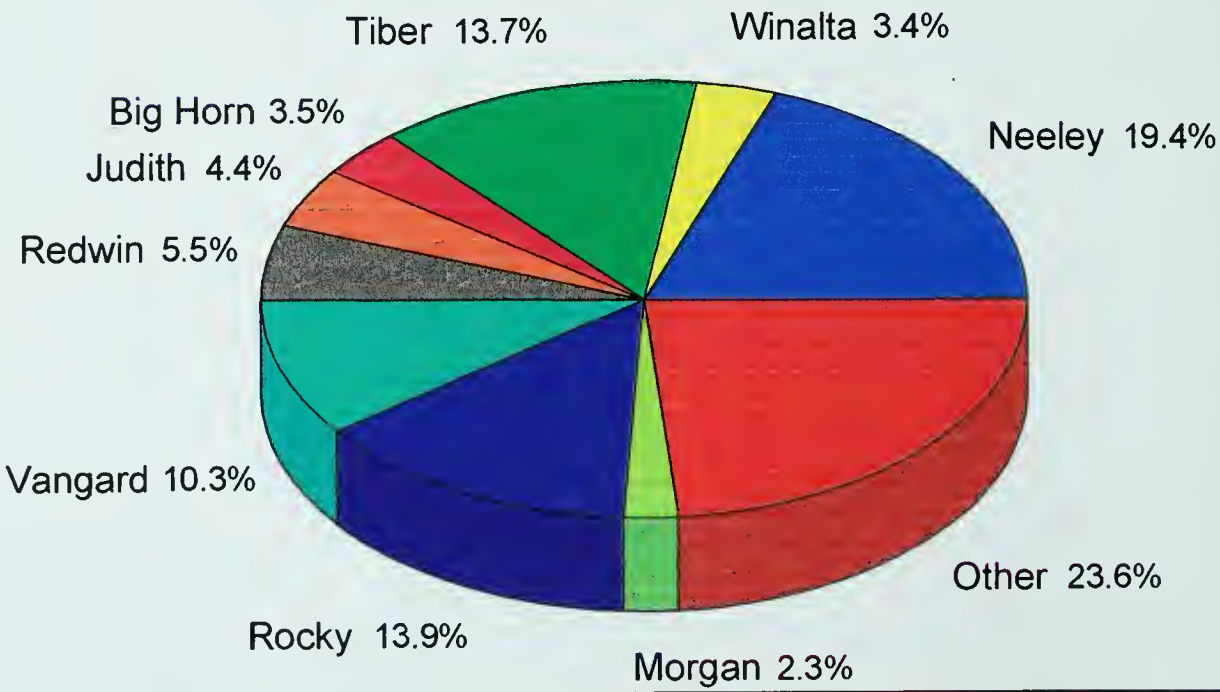
[1] Soft White Wheat [2] Revised

Winter Wheat

Major Varieties as Percent of Total



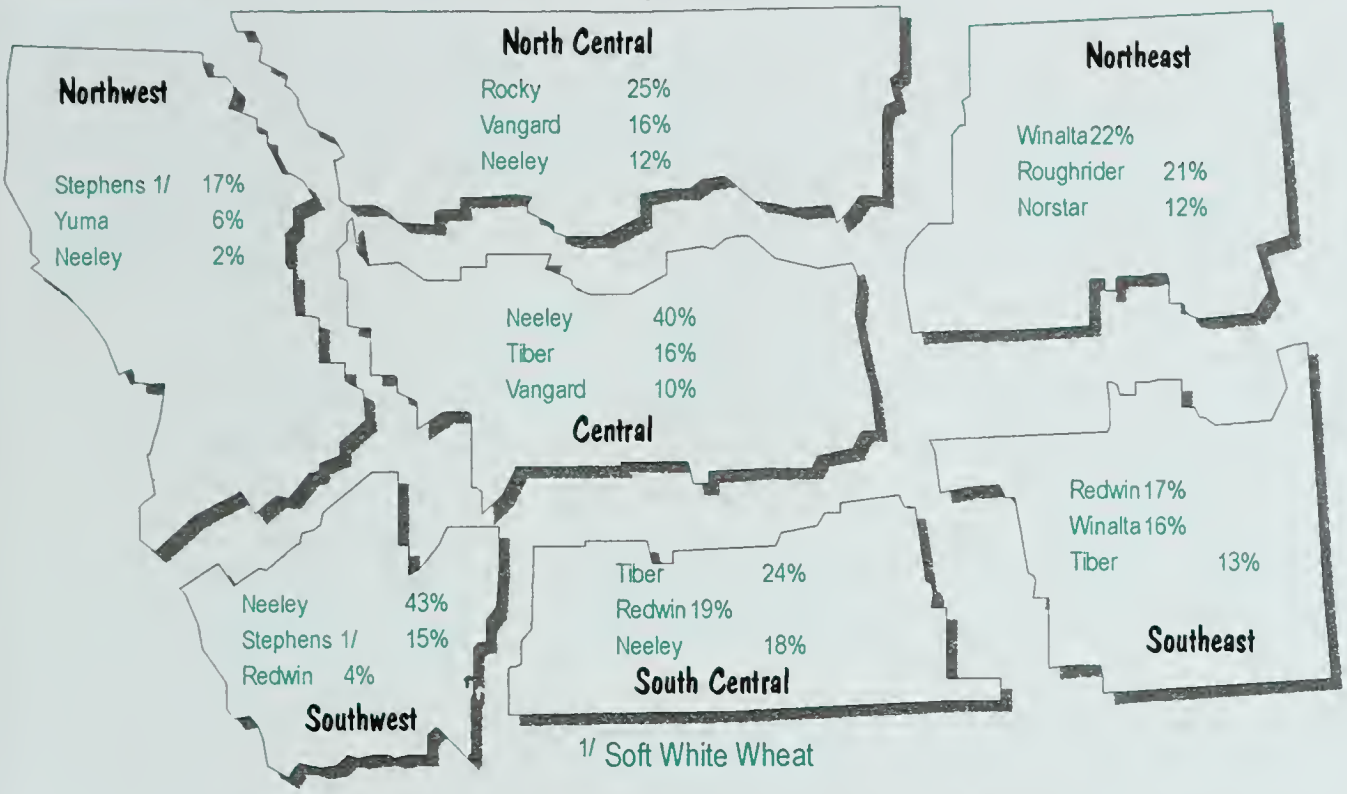
1998 Top Varieties



Winter Wheat

Top Three Varieties

Percent by District



Montana's Rank Among the Larger Winter Wheat Producing States

State	1998 Seeded Acreage (000)	Rank
Kansas	11,700	1
Oklahoma	6,800	2
Texas	6,100	3
Colorado	2,950	4
Washington	2,200	5
Nebraska	1,900	6
South Dakota	1,500	7
MONTANA	**1,400**	**8**
Missouri	1,350	9
Illinois	1,250	10
US Total	46,850	

Spring Wheat

McNeal was the leading spring wheat variety planted this year, overtaking Amidon after six consecutive years in the top position. This hard red spring wheat accounted for 27 percent of seeded acreage with over 964 thousand acres planted. McNeal is an early maturing variety with superior yield and average protein levels. It is moderately resistant to lodging, stem rust and foliar disease.

Amidon dropped to the second place position this year after a significant decrease in planted acreage. Montana farmers planted only 621 thousand acres, compared to 1.07 million acres planted last year. Amidon is a high yielding, hard red spring wheat with a medium quality rating for test weight and grain protein. It is highly resistant to stem and leaf rust and sawfly infestation. This variety has superior baking and milling qualities.

Westbred Rambo remained the third most popular variety with 277 thousand acres planted this year in the state. This is a drop from last year's 436 thousand acres seeded. Westbred Rambo is a medium maturity variety with a high test weight rating and good yield. It is very resistant to stem rust and sawfly infestation.

Ernest moved up to the fourth place position after a significant increase in planted acres. This year Ernest accounted for 7.6 percent of the state's seeded acreage with 272 thousand acres planted. An early maturing variety, Ernest is rated with a high test weight and medium grain protein levels. It is highly resistant to sawfly infestation, stem and leaf rust and has good milling and baking qualities.

The top four varieties accounted for 59 percent of the spring wheat acreage seeded in 1998. These same four varieties accounted for 54 percent in 1997.

Spring Wheat

Spring Wheat Seeded Acreage and Percent of Total Seeded by Districts - 1998

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
McNeal	1.3	5.0	355.0	22.9	463.3	32.4	65.2	24.6	2.1	5.2	38.0	33.0	39.2	22.4	964.1	26.8
Amidon	–	--	173.6	11.2	351.8	24.6	27.3	10.3	–	--	19.6	17.0	48.7	27.8	621.0	17.3
Westbred Rambo	1.6	6.4	240.3	15.5	5.7	0.4	27.8	10.5	–	--	0.2	0.2	1.2	0.7	276.8	7.7
Ernest	–	--	189.1	12.2	51.5	3.6	14.3	5.4	–	--	11.5	10.0	5.8	3.3	272.2	7.6
Fortuna	–	--	187.6	12.1	20.0	1.4	13.8	5.2	0.8	2.0	4.4	3.8	3.3	1.9	229.9	6.4
Grandin	–	--	38.8	2.5	148.7	10.4	12.2	4.6	–	--	--	–	22.4	12.8	222.1	6.2
Stoa	–	--	23.3	1.5	85.8	6.0	–	--	–	--	--	–	13.1	7.5	122.2	3.4
Hi-Line	–	--	80.6	5.2	11.4	0.8	4.8	1.8	4.0	10.0	0.2	0.2	2.8	1.6	103.8	2.9
Kulm	0.4	1.7	55.8	3.6	1.4	0.1	5.6	2.1	1.8	4.4	1.4	1.2	3.3	1.9	69.7	1.9
Newana	–	--	3.1	0.2	65.8	4.6	–	--	–	--	--	–	0.7	0.4	69.6	1.9
Westbred 926	2.2	8.6	24.8	1.6	–	--	27.6	10.4	6.9	17.3	3.1	2.7	2.5	1.4	67.1	1.9
Lew	–	--	43.4	2.8	7.1	0.5	5.3	2.0	–	--	7.1	6.2	1.6	0.9	64.5	1.8
Len	–	--	–	--	60.1	4.2	–	--	–	--	0.8	0.7	3.5	2.0	64.4	1.8
Westbred 936	10.1	40.3	23.3	1.5	–	--	13.0	4.9	9.5	23.8	1.8	1.6	--	–	57.7	1.6
Fergus	–	--	4.7	0.3	–	--	12.5	4.7	3.0	7.4	1.3	1.1	--	–	21.5	0.6
Bergen	–	--	–	--	18.6	1.3	–	--	--	--	--	–	--	–	18.6	0.5
Westbred Express	2.8	11.2	–	--	–	--	4.5	1.7	5.0	12.5	5.1	4.4	--	–	17.4	0.5
Gus	–	--	–	--	15.7	1.1	–	--	–	--	--	–	--	–	15.7	0.4
Butte 86	–	--	–	--	8.6	0.6	–	--	–	--	--	–	4.7	2.7	13.3	0.4
Tioga	–	--	–	--	12.9	0.9	–	--	–	--	--	–	--	–	12.9	0.4
Sonja	–	--	7.8	0.5	1.4	0.1	–	--	–	--	--	–	--	–	9.2	0.3
Bounty 309	–	--	–	--	5.7	0.4	2.1	0.8	–	--	--	–	--	–	7.8	0.2
Olaf	–	--	–	--	2.9	0.2	1.1	0.4	–	--	2.4	2.1	0.2	0.1	6.6	0.2
Penawawa [1]	2.6	10.4	1.6	0.1	–	--	–	--	1.4	3.5	--	–	--	–	5.6	0.2
Other & Unknown	4.0	16.4	97.2	6.3	91.6	6.4	27.9	10.6	5.5	13.9	18.1	15.8	22.0	12.6	266.3	7.1
State	25.0	100.0	1550.0	100.0	1430.0	100.0	265.0	100.0	40.0	100.0	115.0	100.0	175.0	100.0	3600.0	100.0

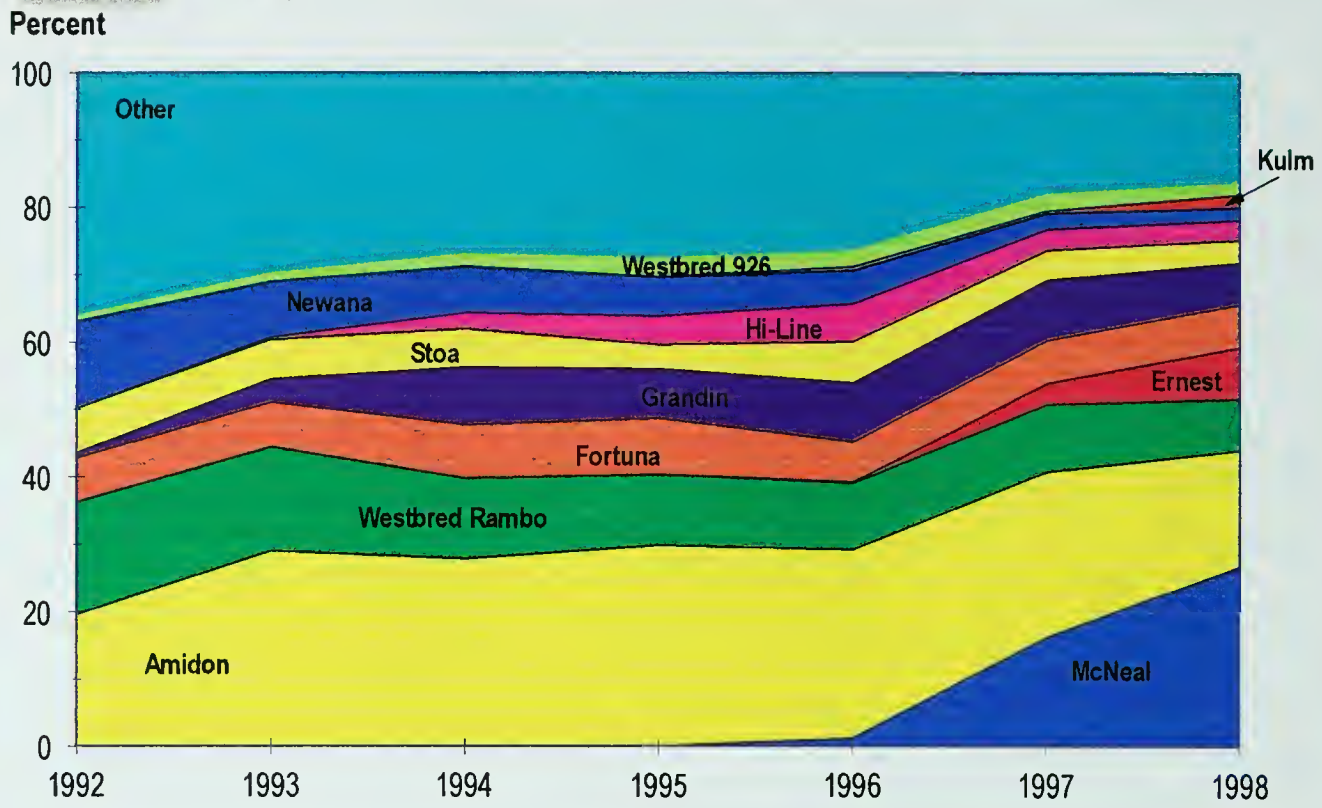
Spring Wheat: Percent of Total Seeded Acreage 1992-1998 & Seeded Acreage 1997-1998

Variety	Percent of Total Seeded Acreage							Seeded Acres	
	1992	1993	1994	1995	1996	1997 [2]	1998	1997 [2]	1998
McNeal	--	–	–	--	1.3	16.2	26.8	706.6	964.1
Amidon	19.6	29.0	27.9	29.9	28.0	24.7	17.3	1,074.0	621.0
Westbred Rambo	16.7	15.5	11.9	10.5	9.9	10.0	7.7	435.6	276.8
Ernest	--	–	–	--	0.2	3.2	7.6	137.5	272.2
Fortuna	6.6	6.6	8.0	8.3	5.9	6.3	6.4	272.9	229.9
Grandin	0.7	3.4	8.5	7.3	8.8	8.9	6.2	388.5	222.1
Stoa	6.7	5.9	5.7	3.6	6.1	4.5	3.4	197.7	122.2
Hi-Line	--	0.4	2.4	4.3	5.6	3.1	2.9	135.5	103.8
Newana	12.9	8.2	6.9	5.8	5.0	2.4	1.9	106.1	69.7
Kulm	--	–	–	--	0.5	0.4	1.9	19.1	69.6
Westbred 926	0.9	1.5	2.0	3.0	2.5	2.7	1.9	117.0	67.1
Lew	8.7	5.0	7.2	4.9	4.4	2.5	1.8	106.8	64.5
Len	8.1	6.6	6.3	6.3	3.6	3.1	1.8	135.3	64.4
Westbred 936	--	–	0.2	0.3	1.4	1.0	1.6	44.0	57.7
Fergus	--	–	–	0.2	0.6	0.8	0.6	36.7	21.5
Bergen	--	–	–	--	0.6	0.4	0.5	15.7	18.6
Westbred Express	--	–	0.3	0.4	0.3	0.6	0.5	27.4	17.4
Gus	0.1	–	0.1	0.6	1.3	0.6	0.4	27.5	15.7
Butte 86	0.5	0.4	0.1	0.9	0.7	1.4	0.4	58.9	13.3
Tioga	–	–	–	--	–	0.2	0.4	7.9	12.9
Sonja	--	–	–	--	0.1	0.3	0.3	12.6	9.2
Bounty 309	–	–	0.2	0.5	0.2	0.4	0.2	17.2	7.8
Olaf	2.7	2.8	2.2	1.1	0.5	0.6	0.2	24.6	6.6
Penawawa [1]	–	–	–	--	0.4	0.2	0.2	9.4	5.6
Other & Unknown	15.8	14.7	10.1	12.1	12.1	5.5	7.1	235.5	266.3
State	100.0	100.0	100.0	100.0	100.0	100.0	100.0	4,350.0	3,600.0

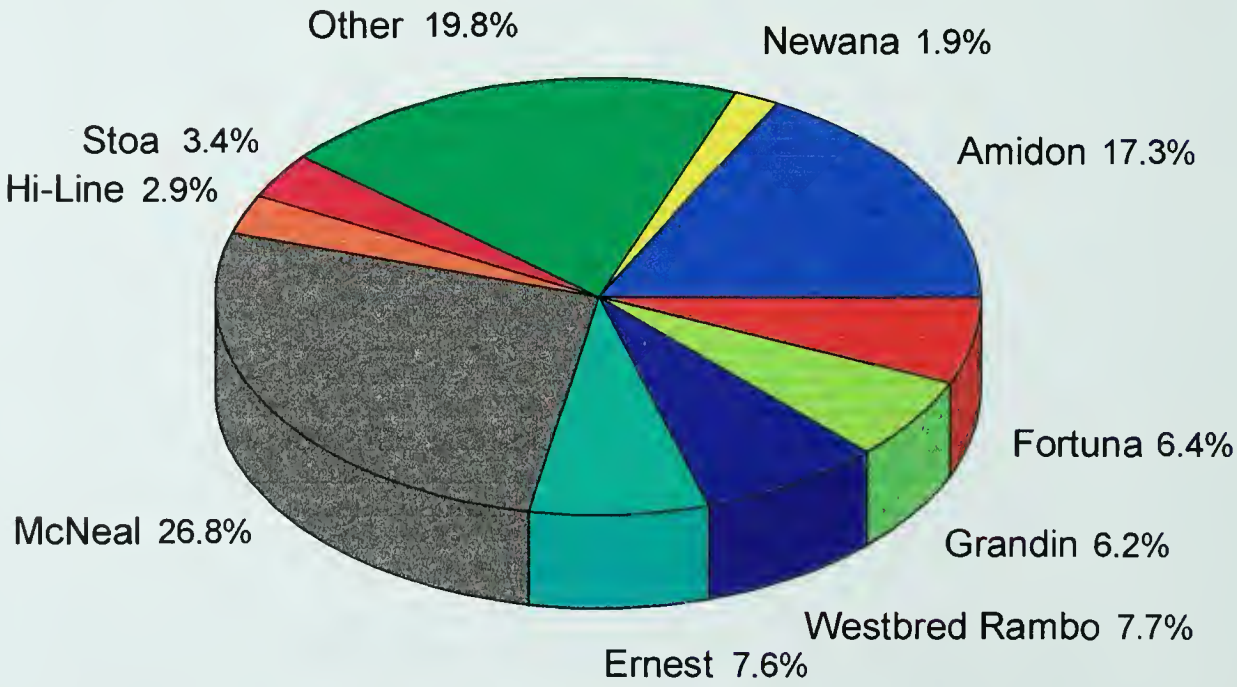
[1] Soft White Wheat [2] Revised

Spring Wheat

Major Varieties as Percent of Total



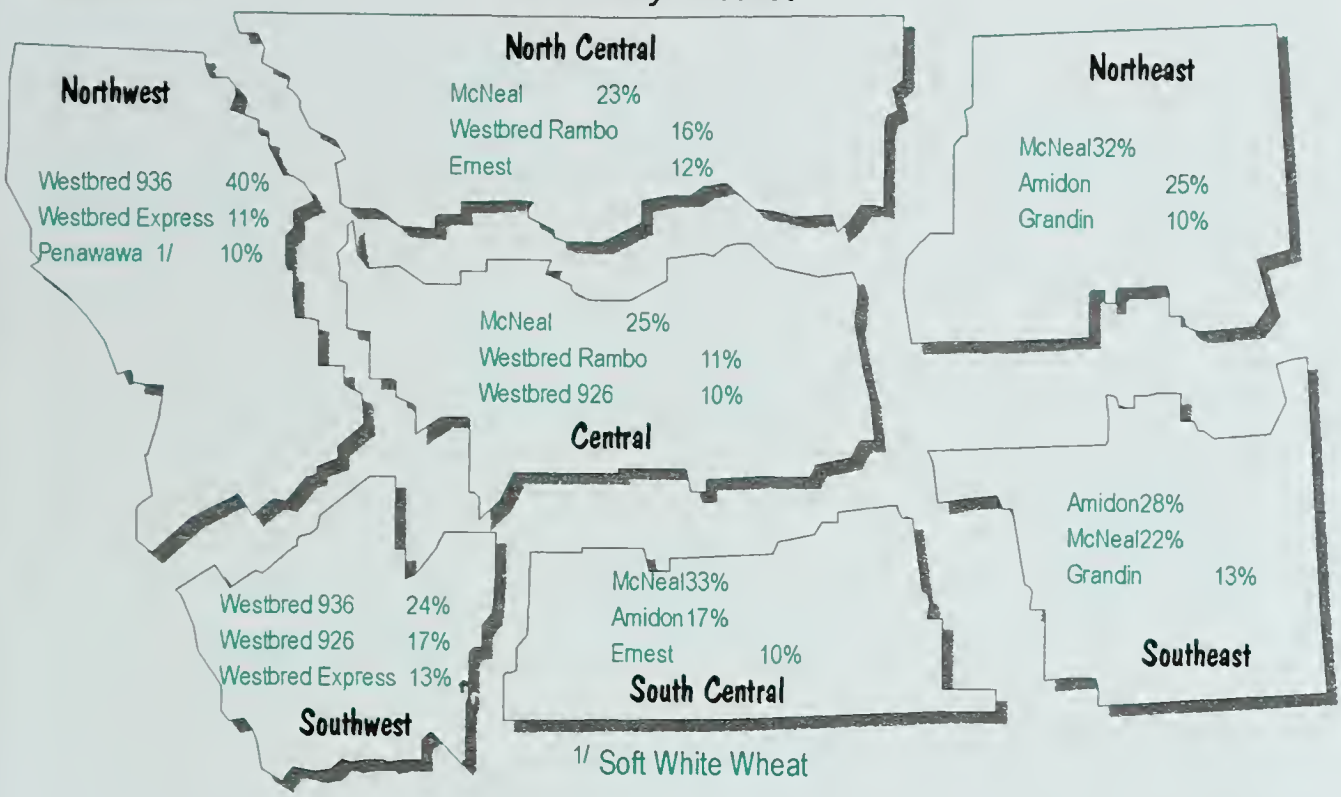
1998 Top Varieties



Spring Wheat

Top Three Varieties

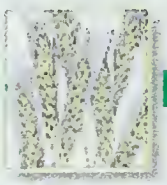
Percent by District



1/ Soft White Wheat

Montana's Rank Among the Larger Spring Wheat Producing States

State	1998 Seeded Acreage (000)	Rank
North Dakota	6,700	1
MONTANA	**3,600**	**2**
South Dakota	1,950	3
Minnesota	1,770	4
Idaho	530	5
US Total	15,249	



Durum Wheat

Kyle continued to be the leading durum variety for the fifth consecutive year. Over 172 thousand acres of Kyle were planted in the state, accounting for 38 percent of the total seeded acres. This is an increase of 60 thousand acres from last year's report. Kyle is a late maturing variety with high grain protein and a high yield potential. It has good resistance to stem and leaf rust.

Sceptre moved up from the sixth place position last year to become the second most popular durum variety with nearly 56 thousand acres planted. Acres of Sceptre planted increased 41 thousand acres from 1997 and this variety accounts for 12 percent of total acres seeded to durum. Sceptre is a moderately early maturing variety that is highly resistant to stem rust. It is medium to tall in height, but has a fairly stiff straw.

Vic is another variety to move up in ranking from its fifth place position last year. Now the third highest variety, 32 thousand acres were seeded in the state compared to 22 thousand acres in 1997. This accounts for over 7 percent of total seeded acres. Vic is a tall variety that matures moderately early and has high grain protein levels. It has good shatter resistance and is highly tolerant to root rot.

Monroe dropped to the fourth position after two years in second place. Montana farmers planted 29 thousand acres of Monroe, a significant drop from the 41 thousand acres seeded last year. This early maturing variety is resistant to stem and leaf rust and has medium resistance to lodging for dryland farming.

These top four varieties account for 64 percent of total acres seeded to durum wheat. This is comparable to 65 percent reported in 1997 for the same four varieties.

Durum Wheat

Durum Wheat: Seeded Acreage and Percent of Total Seeded by Districts - 1998										
Variety	North Central		North East		Central		Other Districts		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Kyle	10.2	8.9	159.2	53.6	2.7	13.3	--	--	172.1	38.2
Sceptre	51.1	44.4	--	--	4.7	23.4	--	--	55.8	12.4
Vic	0.5	0.4	31.8	10.7	--	--	--	--	32.3	7.2
Monroe	3.6	3.1	25.8	8.7	--	--	--	--	29.4	6.6
Renville	2.5	2.2	18.1	6.1	--	--	5.5	31.0	26.1	5.8
Medora	0.3	0.3	24.1	8.1	0.4	2.0	--	--	24.8	5.5
Voss	17.9	15.6	1.2	0.4	--	--	--	--	19.1	4.2
Westbred Laker	6.6	5.7	7.1	2.4	--	--	0.5	3.0	14.2	3.2
Coyote	1.4	1.2	8.0	2.7	--	--	--	--	9.4	2.1
Ward	0.1	0.1	7.1	2.4	--	--	--	--	7.2	1.6
Kronos	6.9	6.0	--	--	--	--	--	--	6.9	1.5
Crosby	--	--	2.7	0.9	--	--	--	--	2.7	0.6
Stockholm	1.8	1.6	--	--	--	--	--	--	1.8	0.4
Durex	1.0	0.9	--	--	--	--	--	--	1.0	0.2
Westbred 881	--	--	0.3	0.1	--	--	0.7	4.0	1.0	0.2
Ben	0.6	0.5	0.3	0.1	--	--	--	--	0.9	0.2
Cando	--	--	--	--	0.5	2.7	--	--	0.5	0.1
Kemut	0.3	0.3	--	--	--	--	--	--	0.3	0.1
Other & Unknown	10.2	8.8	11.3	3.8	11.7	58.6	11.3	62.0	44.5	9.9
State	115.0	100.0	297.0	100.0	20.0	100.0	18.0	100.0	450.0	100.0

Durum Wheat: Percent of Total Seeded Acreage 1992-1998 & Seeded Acreage 1997-1998									
Variety	Percent of Total Seeded Acreage							Seeded Acres	
	1992	1993	1994	1995	1996	1997 [1]	1998	1997 [1]	1998
Kyle	2.4	7.0	23.6	23.4	20.4	38.4	38.2	111.5	172.1
Sceptre	--	--	--	3.8	3.1	5.1	12.4	14.9	55.8
Vic	26.6	7.7	9.3	17.7	13.9	7.4	7.2	21.6	32.3
Monroe	10.3	24.2	22.5	11.1	20.5	14.1	6.6	40.9	29.4
Renville	5.9	2.8	7.4	10.0	9.0	8.4	5.8	24.3	26.1
Medora	20.8	18.0	3.4	6.0	2.4	8.7	5.5	25.2	24.8
Voss	--	--	--	--	--	1.0	4.2	2.9	19.1
Westbred Laker	8.9	23.5	14.5	3.8	3.1	2.7	3.2	7.9	14.2
Coyote	--	--	--	--	--	--	2.1	--	9.4
Ward	5.8	1.3	4.6	4.7	5.4	1.9	1.6	5.4	7.2
Kronos	--	--	--	--	--	--	1.5	--	6.9
Crosby	4.8	2.8	6.4	3.5	7.8	5.1	0.6	14.7	2.7
Stockholm	--	--	--	--	--	--	0.4	--	1.8
Durex	--	--	--	--	0.8	1.0	0.2	2.9	1.0
Westbred 881	--	--	--	--	0.2	0.1	0.2	0.3	1.0
Ben	--	--	--	--	--	--	0.2	--	0.9
Cando	--	--	--	--	--	--	0.1	--	0.5
Kemut	--	--	1.1	0.3	0.5	0.7	0.1	1.9	0.3
Other & Unknown	14.5	12.7	7.2	15.7	12.9	5.4	9.9	15.6	44.5
State	100.0	100.0	100.0	100.0	100.0	100.0	100.0	290.0	450.0

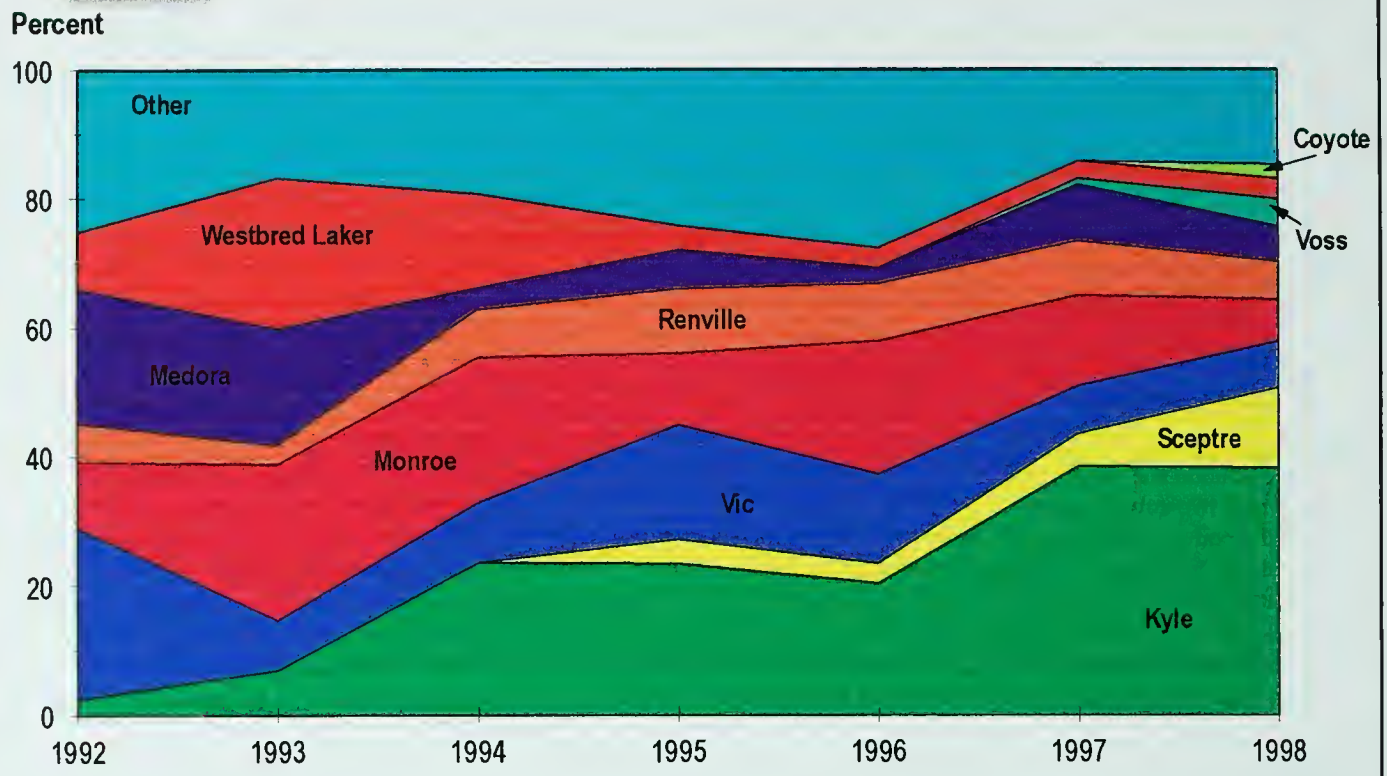
Montana's Rank Among the Larger Durum Wheat Producing States

State	1998 Seeded Acreage (000)	Rank
North Dakota	2,900	1
MONTANA	**450**	**2**
California	180	3
Arizona	145	4
South Dakota	20	5
US Total	3,700	

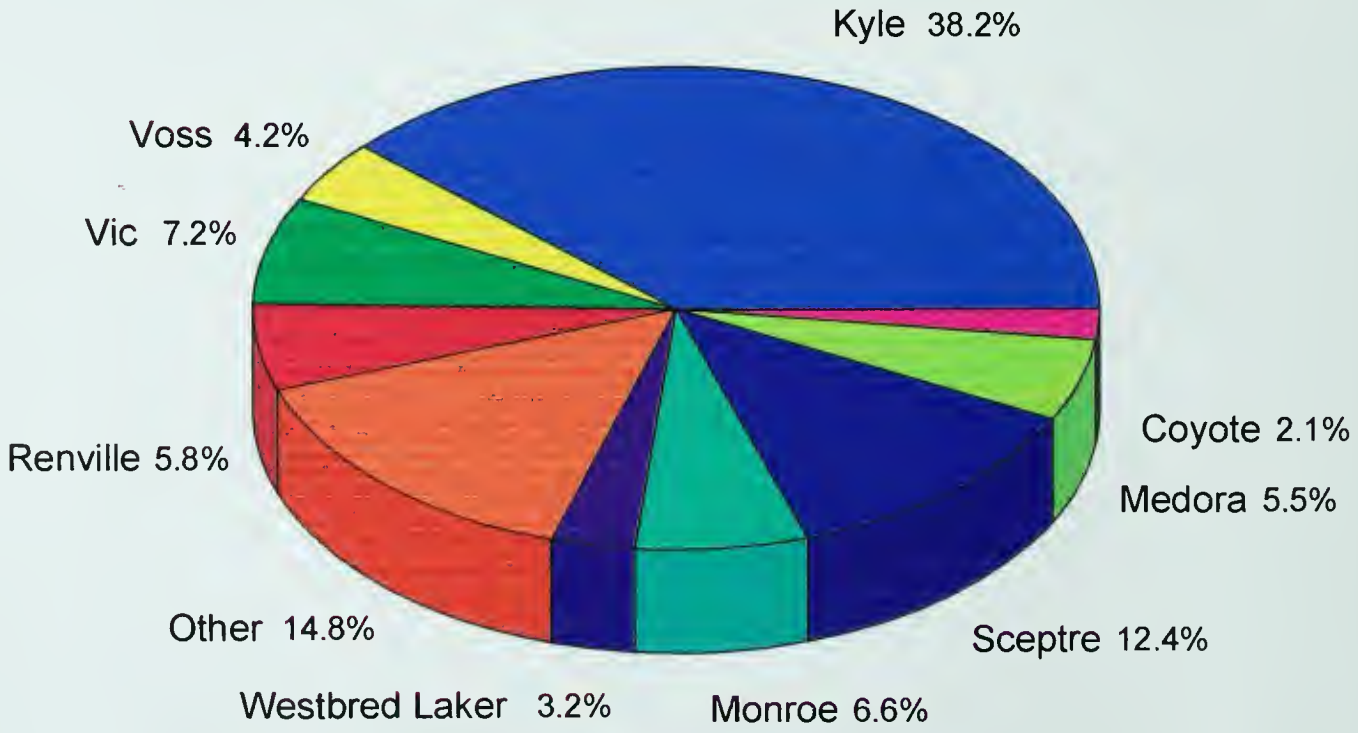
[1] Revised

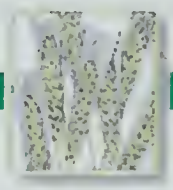
Durum Wheat

Major Varieties as Percent of Total



1998 Top Varieties





Barley

Montana farmers planted 1.4 million acres of barley in 1998, an increase of 100 thousand acres from last year. Over 52 percent of total acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association. The top variety seeded in Montana was Harrington, maintaining its position for the fifth consecutive year.

Malting-Type Varieties

Harrington remained the top variety planted in the state. It accounted for 43 percent of total seeded acreage with 603 thousand acres planted. Harrington is the most popular variety of barley recommended by the American Malting Barley Association for planting in Montana. It is a rough awned, two-rowed variety with medium test weight and good malting qualities. In the North Central district, 62 percent of total barley acreage was Harrington.

B1202 maintained the second place position for the fourth consecutive year with 69 thousand acres of barley planted. Seeded acreage did not vary greatly from the 67 thousand acres planted in 1997. This two-rowed variety is medium height, has good straw strength and average lodging resistance.

Chinook moved up to the third position with acreage seeded to this variety more than doubling from 1997. This year, 24 thousand acres of Chinook were planted compared to only 10 thousand acres seeded during the 1997 season. This variety was developed by the Montana Agricultural Experiment Station and was released to certified producers in 1995. Chinook is a two-rowed, rough awned variety with good malting qualities and good yield potential for both irrigated and dryland farming.

Morex continued to rank fourth among malting barley varieties in the state with an increase in seeded acreage to 20 thousand acres. This compares to 15 thousand acres planted in 1997. Morex is a smooth awned, six-rowed variety with high grain protein and moderate resistance to spot blotch. It is a tall grain and matures fairly early compared to other varieties.

Feed-type Varieties

Baronesse remained the leading feed-type barley for the third consecutive year. Over 163 thousand acres of Baronesse were planted this year, a drop from last year's seeded acreage of 203 thousand acres. This is a two-rowed variety with high test weight and medium grain protein. Baronesse is highly resistant to lodging, has a medium maturity and medium short height. It has excellent irrigated yield potential.

Hector also maintained its position as second most popular feed-type barley despite a reduction in seeded acreage from 1997. In 1998, nearly 94 thousand acres of Hector were planted, accounting for almost 7 percent of total seeded acreage. Hector is a medium tall, two-rowed variety with moderate resistance to stem rust and high grain protein levels. It is a medium maturity grain and has average test weights in both irrigated and dryland areas.

Gallatin stayed in the third place position for the second consecutive year. It accounts for over 4 percent of total seeded acreage with 62 thousand acres of the variety planted in the state. Gallatin is a two-rowed, rough awned variety and matures during mid season. This variety has good lodging resistance and high test weights and yield potential under most conditions.

Bowman was the fourth most popular feed-type variety in Montana. Almost 43 thousand acres of this variety were seeded in 1998, a decrease of almost 20 thousand acres from last year. Bowman is an early maturing variety with high test weight and moderately high grain protein levels. This two-rowed grain is smooth awned and has good resistance to lodging.

Barley

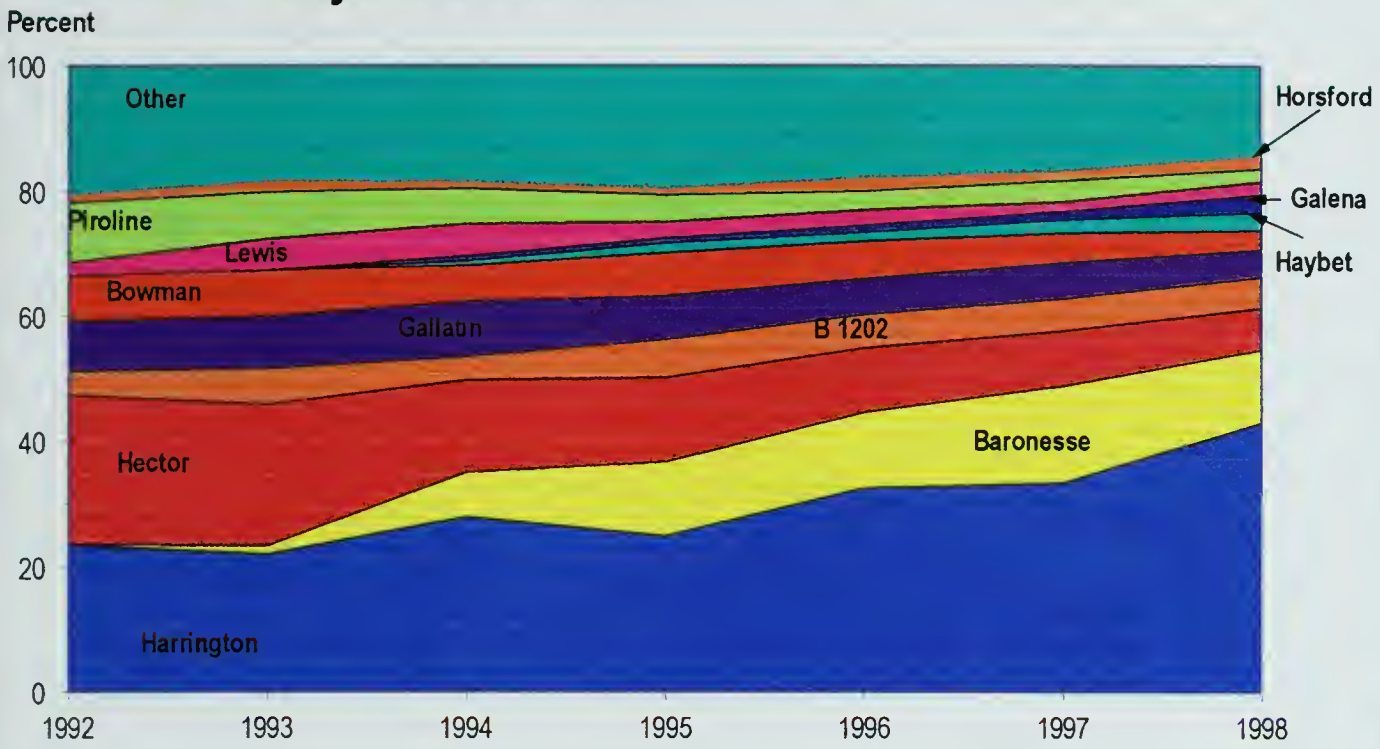
Seeded Acreage and Percent of Total by Districts - 1998																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington [1]	0.5	1.7	476.6	61.9	6.6	5.3	99.6	36.9	15.8	22.6	3.7	4.1	--	--	602.8	43.1
Baronesse	8.2	27.2	77.8	10.1	4.6	3.7	56.7	21.0	10.4	14.8	4.3	4.8	1.4	3.1	163.4	11.7
Hector	0.3	0.9	23.9	3.1	35.0	28.0	19.7	7.3	1.5	2.2	8.5	9.4	4.9	10.9	93.8	6.7
B 1202 [1]	--	-	55.4	7.2	-	--	4.0	1.5	0.4	0.6	8.7	9.7	--	--	68.5	4.9
Gallatin	2.6	8.8	11.6	1.5	1.0	0.8	18.9	7.0	3.7	5.3	18.7	20.8	5.8	12.8	62.3	4.4
Bowman	--	-	6.9	0.9	12.8	10.2	5.4	2.0	--	-	11.3	12.5	6.5	14.5	42.9	3.1
Haybet	2.3	7.6	4.6	0.6	12.1	9.7	4.0	1.5	1.6	2.3	2.5	2.8	13.9	30.9	41.0	2.9
Galena	--	-	31.6	4.1	-	--	-	--	0.5	0.7	6.9	7.7	--	--	39.0	2.8
Piroline	--	-	13.1	1.7	-	--	11.3	4.2	4.0	5.7	-	-	1.0	2.2	29.4	2.1
Lewis	--	-	15.4	2.0	8.8	7.0	1.1	0.4	1.0	1.4	0.4	0.4	3.0	6.7	29.7	2.1
Horsford	1.4	4.6	5.4	0.7	6.4	5.1	6.2	2.3	1.5	2.1	7.0	7.8	0.9	2.1	28.8	2.1
Chinook [1]	0.9	3.0	7.7	1.0	2.0	1.6	10.3	3.8	--	-	3.2	3.6	--	--	24.1	1.7
Morex [1]	--	-	4.6	0.6	-	--	4.9	1.8	10.1	14.4	-	-	0.8	1.8	20.4	1.5
Clark	0.1	0.2	3.1	0.4	1.4	1.1	7.3	2.7	--	-	3.0	3.3	--	--	14.9	1.1
Stark	--	-	-	--	12.0	9.6	-	--	--	-	-	-	0.4	0.9	12.4	0.9
B 2601 [1]	--	-	12.3	1.6	-	--	-	--	--	-	-	-	--	--	12.3	0.9
Menuet	10.3	34.2	-	--	0.3	0.2	-	--	--	-	-	-	--	--	10.6	0.8
B Merit	--	-	3.9	0.5	-	--	-	--	--	-	-	-	--	--	3.9	0.3
Nebula	--	-	-	--	-	--	0.3	0.1	3.5	5.0	0.1	0.1	--	--	3.9	0.3
Moravian III	--	-	-	--	-	--	-	--	--	-	3.7	4.1	--	--	3.7	0.3
Unitan	--	-	-	--	-	--	0.5	0.2	0.3	0.4	-	-	2.6	5.8	3.4	0.2
Klages	--	-	0.8	0.1	1.9	1.5	-	--	--	-	-	-	--	--	2.7	0.2
Excel [1]	--	-	-	--	2.0	1.6	-	--	--	-	-	-	--	--	2.0	0.1
Larker	--	-	-	--	-	--	1.1	0.4	--	-	-	-	--	--	1.1	0.1
Other & Unknown	3.4	11.8	15.3	2.0	18.1	14.6	18.7	6.9	15.7	22.5	8.0	8.9	3.8	8.3	83.0	5.7
State	30.0	100.0	770.0	100.0	125.0	100.0	270.0	100.0	70.0	100.0	90.0	100.0	45.0	100.0	1,400.0	100.0

Percent of Total Seeded Acreage 1992-1998 & Seeded Acreage 1997-1998									
Variety	Percent of Total Seeded Acreage							Seeded Acres	
	1992	1993	1994	1995	1996	1997 [2]	1998	1997 [2]	1998
Harrington [1]	23.5	22.0	28.0	24.9	32.6	33.4	43.1	434.8	602.8
Baronesse	0.1	1.5	7.2	11.9	12.2	15.6	11.7	203.3	163.4
Hector	23.9	22.5	14.7	13.5	10.2	8.8	6.7	114.0	93.8
B 1202 [1]	3.9	5.7	3.7	6.1	5.4	5.1	4.9	66.6	68.5
Gallatin	8.0	8.4	8.8	6.9	5.7	5.8	4.4	75.9	62.3
Bowman	7.1	7.3	5.8	6.9	6.0	4.7	3.1	60.5	42.9
Haybet	--	--	0.7	1.5	1.4	2.1	2.9	26.8	41.0
Galena	--	--	0.8	0.9	1.2	1.4	2.8	18.0	39.0
Lewis	2.2	5.1	5.2	2.5	2.4	1.5	2.1	19.1	29.7
Piroline	9.5	7.4	5.6	4.3	3.0	3.4	2.1	44.6	29.4
Horsford	1.4	1.9	1.3	1.2	2.3	1.7	2.1	22.4	28.8
Chinook [1]	--	--	--	--	0.5	0.8	1.7	10.2	24.1
Morex [1]	3.0	2.4	2.0	0.5	0.7	1.2	1.5	15.2	20.4
Clark	2.5	2.1	1.2	1.5	1.6	1.1	1.1	14.5	14.9
Stark	--	--	0.7	0.5	0.7	0.8	0.9	10.4	12.4
B 2601 [1]	1.4	0.6	1.1	1.8	1.3	1.8	0.9	23.0	12.3
Menuet	1.4	0.8	1.5	0.9	1.1	0.7	0.8	9.0	10.6
Nebula	--	--	--	--	--	--	0.3	--	3.9
B Merit	--	--	--	--	--	--	0.3	--	3.9
Moravian III	1.8	1.9	0.8	1.0	1.8	0.9	0.3	11.1	3.7
Unitan	0.2	0.5	0.3	0.2	--	0.5	0.2	7.0	3.4
Klages	0.3	0.6	--	0.1	0.8	0.3	0.2	3.4	2.7
Excel [1]	0.1	0.2	0.4	1.3	--	0.3	0.1	4.1	2.0
Larker	--	--	--	--	--	--	0.1	--	1.1
Other & Unknown	9.7	9.1	10.2	11.6	9.1	8.1	5.7	106.1	83.0
State	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,300.0	1,400.0

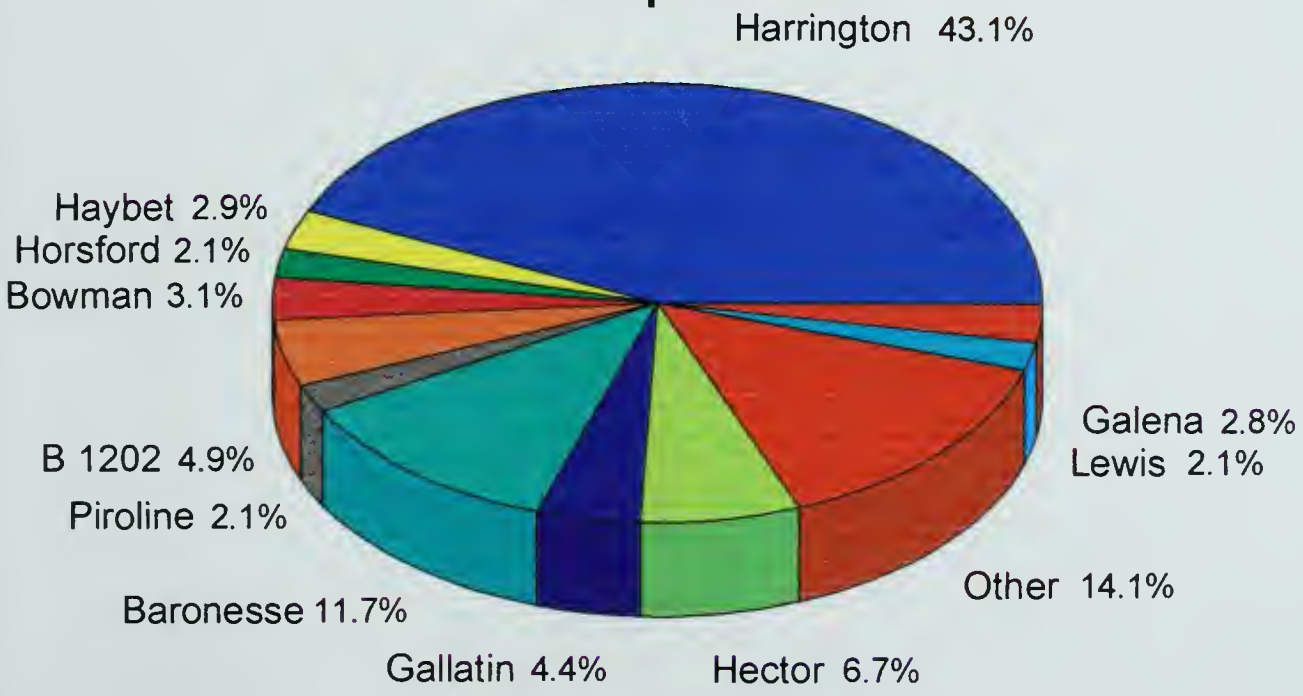
1 American Malting Barley Association, Inc. recommended for malting & brewing for Montana, 1998. 2 Revised

Barley

Major Varieties as Percent of Total



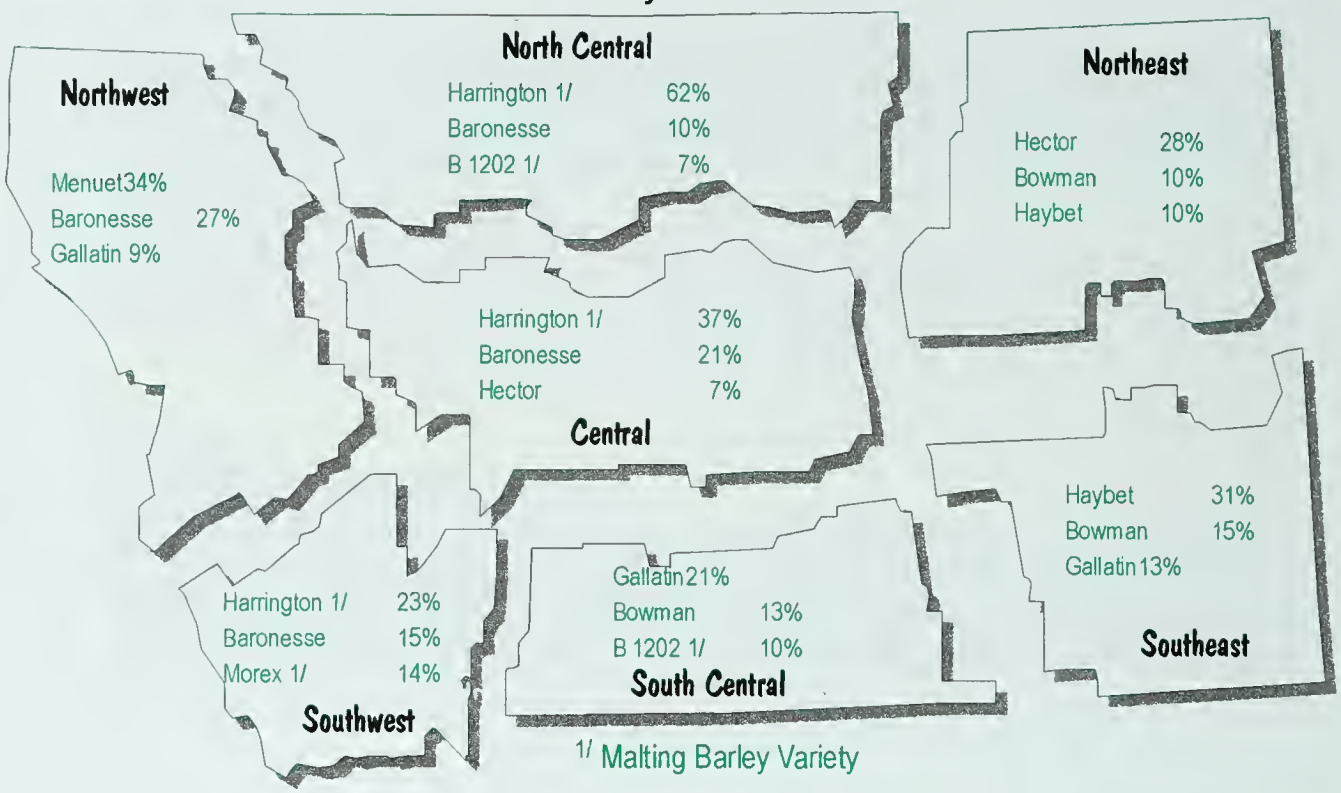
1998 Top Varieties



Barley

Top Three Varieties

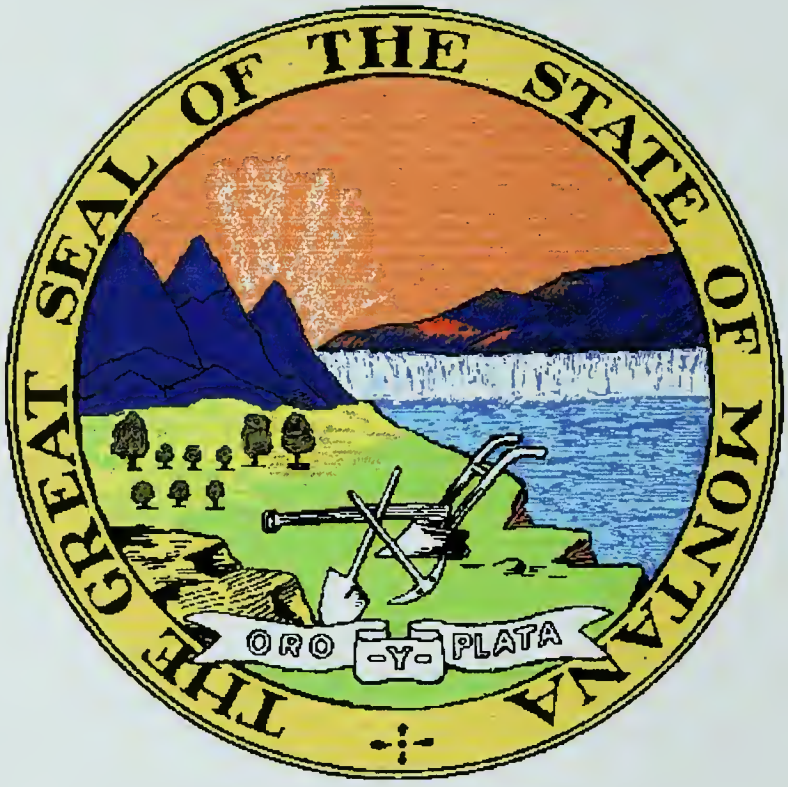
Percent by District



1/ Malting Barley Variety

Montana's Rank Among the Larger Barley Producing States

State	1998 Seeded Acreage (000)	Rank
North Dakota	2,000	1
MONTANA	**1,400**	**2**
Idaho	780	3
Washington	530	4
Minnesota	480	5
US Total	6,446	


THE GREAT SEAL OF THE STATE OF MONTANA
ORO -Y- PLATA